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1	1	(receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
2	1	(receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
3	0	(quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
4	104	(quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
5	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
6	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
7	0	((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
8	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:16
9	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
10	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
11	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
12	0	((receiv\$3 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)) and ((quer\$3 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))) and ((quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:16
13	148	((creat\$3 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4) and (((multipl\$4 pluralit\$4) near5 quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:16

[illegible]

-	250	receiv\$4 near5 quer\$4 near5 address\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 09:49
-	0	(receiv\$4 near5 quer\$4 near5 address\$2) and (normal\$5 near5 criteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:14
-	0	(receiv\$4 near5 quer\$4 near5 address\$2) and (modif\$5 near5 criteria)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/27 09:28
-	6856	receiv\$4 near5 quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/27 09:29
-	10	receiv\$4 near5 quer\$4) and(normal\$5 near5 criteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 13:50
-	120	quer\$4 near5 user\$1 near3 address\$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/01/27 10:17
-	0	(quer\$4 near5 user\$1 near3 address\$2) and (recev\$4 near5 (search\$4 or quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
-	49	(quer\$4 near5 user\$1 near3 address\$2) and (receiv\$4 near5 (search\$4 or quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:15
-	1	6338055.pn. and (receiv\$4 near5 result\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:47
-	0	6338055.pn. and (search\$4 near5 criteria\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:47
-	0	6338055.pn. and (search\$4 same criteria\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:47
-	1	6338055.pn. and (search\$4 and criteria\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:48
-	1	6338055.pn. and (quer\$4 same criteria\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:09

-	1	6338055.pn. and (normal\$4 same criteria\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:16
-	0	6338055.pn. and (transmit\$4 same engine\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:50
-	0	6338055.pn. and (transmit\$4 same search\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 10:50
-	0	6338055.pn. and (reciev\$4 same search\$4 same result\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:19
-	0	6338055.pn. and (reciev\$4 same quer\$4 same result\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:18
-	0	6338055.pn. and (reciev\$4 and quer\$4 and result\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:18
-	1	6338055.pn. and (receiv\$4 and quer\$4 and result\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:19
-	1	6338055.pn. and (receiv\$4 same search\$4 same result\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 11:19
-	40	receiv\$3 near5 quer\$4) and(normal\$5 near5 criteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:29
-	0	(receiv\$3 near5 quer\$4) and(normal\$5 near5 criteria) and (receiv\$4 near5 search\$4 near5 result\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 13:51
-	7	(receiv\$3 near5 quer\$4) and(normal\$5 near5 criteria) and (search\$4 near5 result\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 14:09
-	34	(receiv\$3 near5 quer\$4) and(normal\$5 near5 criteria) and (search\$4 same result\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/09/17 14:11
-	899	quer\$4 near5 normal\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:22

-	909	quer\$4 near5 normal\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:23
-	0	(quer\$4 near5 normal\$6) and (normal\$6 near5 search\$4 near5 criteri\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:24
-	2	(quer\$4 near5 normal\$6) and (normal\$6 near5 search\$4 near5 criteri\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:26
-	29	(normal\$6 near5 search\$4 near5 criteri\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:26
-	48	receiv\$3 near5 quer\$4) and (normal\$5 near5 criteria	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:40
-	1645	quer\$4 near5 optimiz\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:41
-	152	(quer\$4 near5 optimiz\$5) and (search\$4 near5 criteria\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:42
-	63	((quer\$4 near5 optimiz\$5) and (search\$4 near5 criteria\$5)) and (single\$4 near5 quer\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/08 16:42
-	192	(creat\$4 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 10:04
-	19	((creat\$4 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4) same ((pluralit\$4 many\$3) near5 quer\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 09:52
-	457	quer\$4 near5 refin\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 09:59
-	18	((creat\$4 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4) and (quer\$4 near5 refin\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 10:03
-	4838	((multipl\$4 pluralit\$4) near5 quer\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 10:04

-	36	((creat\$4 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4) same (((multipl\$4 pluralit\$4) near5 quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/03/09 10:13
-	127	((creat\$4 generat\$4 get\$4 mak\$3) near5 single\$4 near5 quer\$4) and (((multipl\$4 pluralit\$4) near5 quer\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/07/20 15:16



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Results 1 - 10 of 10 **short listing**

1 Query processing in a heterogeneous retrieval network

84


 P. Simpson

Proceedings of the 11th annual international ACM SIGIR conference on Research and development in information retrieval May 1988

The concept of a large-scale information retrieval network incorporating heterogeneous retrieval systems and users is introduced, and the necessary components for enabling term-based searching of any database by untrained end-users are outlined. We define a normal form for expression of queries, show that such queries can be automatically produced, if necessary, from a natural-language request for information, and give algorithms for translating such queries, with little or no loss of expre ...

2 Multimedia: Video retrieval using an MPEG-7 based inference network

77


 Andrew Graves , Mounia Lalmas

Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval August 2002

This work proposes a model for video retrieval based upon the inference network model. The document network is constructed using video metadata encoded using MPEG-7 and captures information pertaining to the structural aspects (video breakdown into shots and scenes), conceptual aspects (video, scene and shot content) and contextual aspects (context information about the position of conceptual content within the document). The retrieval process a) exploits the distribution of evidence among the s ...

3 Compacting discriminator information for spatial trees

77

 Inga Sitzmann , Peter J. Stuckey








Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002

Volume 24 Issue 2

Cache-conscious behaviour of data structures becomes more important as memory sizes increase and whole databases fit into main memory. For spatial data, R-trees, originally designed for disk-based data, can be adopted for in-memory applications. In this paper, we will investigate how the small amount of space in an in-memory R-tree node can be used better to make R-trees more cache-conscious. We observe that many entries share sides with their parents, and introduce the partial R-tree which only ...

4 Use of dynamic discrimination values in a document retrieval system

77

-  Robert T. Dattola
Proceedings of the 2nd annual international ACM SIGIR conference on Information storage and retrieval: information implications into the eighties September 1979
 The use of discrimination values as a term weighting function in document retrieval systems is examined. It is shown that regular discrimination values are too costly to compute after every update to the data base. Dynamic discrimination values that are easy to update are defined for use as approximations to regular values. Experiments are performed comparing regular vs. dynamic discrimination values. Actual user queries from an operational data base are used to evaluate dynamic discrimination v ...
- 5** A highly scalable and effective method for metasearch 77
 Weiyi Meng , Zonghuan Wu , Clement Yu , Zhuogang Li
ACM Transactions on Information Systems (TOIS) July 2001
 Volume 19 Issue 3
 A metasearch engine is a system that supports unified access to multiple local search engines. Database selection is one of the main challenges in building a large-scale metasearch engine. The problem is to efficiently and accurately determine a small number of potentially useful local search engines to invoke for each user query. In order to enable accurate selection, metadata that reflect the contents of each search engine need to be collected and used. This article proposes a highly scalable ...
- 6** Towards a highly-scalable and effective metasearch engine 77
 Zonghuan Wu , Weiyi Meng , Clement Yu , Zhuogang Li
Proceedings of the tenth international conference on World Wide Web April 2001
- 7** Efficient and effective metasearch for a large number of text databases 77
 Clement Yu , Weiyi Meng , King-Lup Liu , Wensheng Wu , Naphtali Rishe
Proceedings of the eighth international conference on Information and knowledge management November 1999
 Metasearch engines can be used to facilitate ordinary users for retrieving information from multiple local sources (text databases). In a metasearch engine, the contents of each local database is represented by a representative. Each user query is evaluated against the set of representatives of all databases in order to determine the appropriate databases to search. When the number of databases is very large, say in the order of tens of thousands or more, then a traditional metasearch engine ...
- 8** A query based approach for integrating heterogeneous data sources 77
 Ruxandra Domenig , Klaus R. Dittrich
Proceedings of the ninth international conference on Information and knowledge management November 2000
- 9** Efficiency/effectiveness trade-offs in query processing (from theory into practice 77
 workshop, 1998 SIGIR conf.)
 David Hawking
ACM SIGIR Forum September 1998
 Volume 32 Issue 2
- 10** Use of syntactic context to produce term association lists for text retrieval 77
 Gregory Grefenstette
Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval June 1992
 One aspect of world knowledge essential to information retrieval is knowing when two words are related. Knowing word relatedness allows a system given a user's query terms to retrieve relevant documents not containing those exact terms. Two words can be said to be related if they appear in the same contexts Document co-occurrence gives a measure of word relatedness that has proved to be too rough to be useful. The relatively recent apparition of on-line dictionaries and robust and rapid

par ...

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Results 1 - 20 of 28 short listing

Prev
Page

1

2

Next
Page

- 1** A visual approach to multimedia querying and presentation 85

Isabel F. Cruz , Wendy T. Lucas
Proceedings of the fifth ACM international conference on Multimedia November 1997
- 2** Supporting efficient multimedia database exploration 84


Wen-Syan Li , K.Selçuk Candan , Kyoji Hirata , Yoshinori Hara
The VLDB Journal — The International Journal on Very Large Data Bases April 2001
 Volume 9 Issue 4
 Due to the fuzziness of query specification and media matching, multimedia retrieval is conducted by way of exploration. It is essential to provide feedback so that users can visualize query reformulation alternatives and database content distribution. Since media matching is an expensive task, another issue is how to efficiently support exploration so that the system is not overloaded by perpetual query reformulation. In this paper, we present a uniform framework to represent statistical inform ...
- 3** MEGA---the maximizing expected generalization algorithm for learning complex 82
 query concepts

Edward Chang , Beita Li
ACM Transactions on Information Systems (TOIS) October 2003
 Volume 21 Issue 4
 Specifying exact query concepts has become increasingly challenging to end-users. This is because many query concepts (e.g., those for looking up a multimedia object) can be hard to articulate, and articulation can be subjective. In this study, we propose a query-concept learner that learns query criteria through an intelligent sampling process. Our concept learner aims to fulfill two primary design objectives: (1) it has to be expressive in order to model most practical query concepts and (2) i ...
- 4** Performance comparison of property map and bitmap indexing 82

Ashima Gupta , Karen C. Davis , Jennifer Grommon-Litton
Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP November 2002
 A data warehouse is a collection of data from different sources that supports analytical querying. A Bitmap Index (BI) allows fast access to individual attribute values that are needed to answer a query by representing the values of an attribute for all tuples separately, as bit strings. A Property Map

(PMap) is a multidimensional indexing technique that pre-computes attribute expressions, called properties, for each tuple and stores the results as bit strings [DD97, LD02]. This paper compares t ...


5 Demonstrations: SearchKids: a digital library interface for young children 82

 Juan Pablo Hourcade , Allison Druin , Lisa Sherman , Benjamin B. Bederson , Glenda Revelle , Dana Campbell , Stacey Ochs , Beth Weinstein

CHI '02 extended abstracts on Human factors in computing systems April 2002

As more information resources become accessible using computers, our digital interfaces to those resources need to be appropriate for all people. However, digital library interfaces have typically been designed for older children or adults. In this demonstration, we present SearchKids, a digital library interface developmentally appropriate for young children (age 5-10 years old). SearchKids offers a graphical interface for querying, browsing and reviewing search results.


6 Designing a digital library for young children 82

 Allison Druin , Benjamin B. Bederson , Juan Pablo Hourcade , Lisa Sherman , Glenda Revelle , Michele Platner , Stacy Weng

Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001

As more information resources become accessible using computers, our digital interfaces to those resources need to be appropriate for all people. However when it comes to digital libraries, the interfaces have typically been designed for older children or adults. Therefore, we have begun to develop a digital library interface developmentally appropriate for young children (ages 5-10 years old). Our prototype system we now call SearchKids offers a graphical interface for querying, browsin ...


7 The parascope editor: an interactive parallel programming tool 80

 V. Balasundaram , K. Kennedy , U. Kremer , K. McKinley , J. Subhlok

Proceedings of the 1989 ACM/IEEE conference on Supercomputing August 1989

The ParaScope project is building an integrated collection of tools to help scientific programmers develop correct and efficient parallel programs. The centerpiece of this collection is the ParaScope Editor, an intelligent interactive editor for parallel FORTRAN programs. The ParaScope Editor displays data dependencies, which correspond to potential data races among the iterations of a parallel loop, to assist the user in determining the correctness of a proposed paralleliz ...

8 Integrated information retrieval in a knowledge worker support system 80


 G. McAlpine , P. Ingwersen

ACM SIGIR Forum , Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval May 1989

Volume 23 Issue 1-2

This paper describes the design of the information retrieval facilities of an integrated information system called EUROMATH. EUROMATH is an example of a Knowledge Worker Support System: it has been designed specifically to support mathematicians in their research work. EUROMATH is required to provide uniform retrieval facilities for searching in a user's personal data, in a shared database of structured documents and in public, bibliographic databases. The ...

9 Efficient content-based indexing of large image databases 80

 Essam A. El-Kwae , Mansur R. Kabuka

ACM Transactions on Information Systems (TOIS) April 2000

Volume 18 Issue 2

Large image databases have emerged in various applications in recent years. A prime requisite of these databases is the means by which their contents can be indexed and retrieved. A multilevel signature file called the Two Signature Multi-level Signature File (2SMLSF) is introduced as an efficient access structure for large image databases. The 2SMLSF encodes image information into binary signatures and creates a tree structures can be efficiently searched ...


10 Research sessions: new styles of XML: Lazy query evaluation for Active XML

 Serge Abiteboul , Omar Benjelloun , Bogdan Cautis , Ioana Manolescu , Tova Milo , Nicoleta Preda
Proceedings of the 2004 ACM SIGMOD international conference on Management of data June 2004

In this paper, we study query evaluation on Active XML documents (AXML for short), a new generation of XML documents that has recently gained popularity. AXML documents are XML documents whose content is given partly extensionally, by explicit data elements, and partly intensionally, by embedded calls to Web services, which can be invoked to generate data. A major challenge in the efficient evaluation of queries over such documents is to detect which calls may bring data that is relevant for the ...

11 Agenda: a personal information manager

77

 S. Jerrold Kaplan , Mitchell D. Kapor , Edward J. Belove , Richard A. Landsman , Todd R. Drake
Communications of the ACM July 1990
Volume 33 Issue 7

The free-form, evolving, personal information that people deal with in the course of their daily activities requires more flexible data structures and data management systems than tabular data structures provide. A tool for managing personal information must conveniently handle freetextual data; allow for structure to evolve gracefully as the database grows; represent unnormalized data; and support data entry through database views. We have designed a new type of database t ...

12 Visualization: Query, analysis, and visualization of hierarchically structured data using Polaris


77

 Chris Stolte , Diane Tang , Pat Hanrahan
Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining July 2002

In the last several years, large OLAP databases have become common in a variety of applications such as corporate data warehouses and scientific computing. To support interactive analysis, many of these databases are augmented with hierarchical structures that provide meaningful levels of abstraction that can be leveraged by both the computer and analyst. This hierarchical structure generates many challenges and opportunities in the design of systems for the query, analysis, and visualization of ...

13 Demonstrations: PBIR: perception-based image retrieval-a system that can quickly capture subjective image query concepts

77

 Edward Chang , Kwang-Ting Cheng , Wei-Cheng Lai , Ching-Tung Wu , Chengwei Chang , Yi-Leh Wu
Proceedings of the ninth ACM international conference on Multimedia October 2001

We describe the Perception-Based Image Retrieval (PBIR) system that we have built on our recently developed query-concept learning algorithms, MEGA and SVMActive. We show that MEGA and SVMActive can learn a complex image-query concept in a small number of user iterations (usually three to four) on a large, multi-category, high-dimensional image database.


14 Using wavelet decomposition to support progressive and approximate range-sum queries over data cubes

77

 Yi-Leh Wu , Divyakant Agrawal , Amr El Abbadi
Proceedings of the ninth international conference on Information and knowledge management November 2000

15 A visual language for querying spatio-temporal databases

77

 Christine Bonhomme , Claude Trépied , Marie-Aude Aufaure , Robert Laurini
Proceedings of the seventh ACM international symposium on Advances in geographic information systems November 1999

16 Text file inversion: an evaluation

77

 R. M. Bird , J. B. Newsbaum , J. L. Trefftz

August 1978

Volume 7 , 10 , 13 Issue 2 , 1 , 2

This paper compares inversion of text files with inversion of more structured records. The unique characteristics of textual data which restrict the utility of inversion are identified and discussed. Inversion is shown to be useful only for small, static data bases, and when full text search is not required.

17 Automatic metadata creation: Automated semantic annotation and retrieval based on sharable ontology and case-based learning techniques 77



Von-Wun Soo , Chen-Yu Lee , Chung-Cheng Li , Shu Lei Chen , Ching-chih Chen

Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003

Effective information retrieval (IR) using domain knowledge and semantics is one of the major challenges in IR. In this paper we propose a framework that can facilitate image retrieval based on a sharable domain ontology and thesaurus. In particular, case-based learning (CBL) using a natural language phrase parser is proposed to convert a natural language query into resource description framework (RDF) format, a semantic-web standard of metadata description that supports machine readable semanti ...

18 Short talks: information retrieval and visualization: Improving user performance on Boolean queries 77



John F. Pane , Brad A. Myers

CHI '00 extended abstracts on Human factors in computing systems April 2000

The accurate formulation of boolean expressions is a notorious problem in programming languages as well as database and web query tools. Users have demonstrated great difficulty with the common textual method for specifying these queries, which uses the boolean operators *AND*, *OR*, and *NOT*, partly because these words are used inconsistently in natural languages. This paper proposes a tabular boolean query language that avoids the need to use named operators, provides a concrete disti ...

19 Query languages: An implementation of a query language supporting path expressions 77



Sue M. Dintelman , A. Timothy Maness

Proceedings of the 1982 ACM SIGMOD international conference on Management of data June 1982

This paper describes the query language of the Genealogical Information System (GENISYS) which provides users with a high level, relational-like view of their data combined with the ability to reference attributes in associated relations by specifying paths from source relations to target relations. The emphasis in the presentation is on the use and implementation of the link selectors used for specifying paths between relations. Link selectors allow users a convenient mechanism for formulating ...

20 Short Talks: Navigational blocks: tangible navigation of digital information 77



Ken Camarata , Ellen Yi-Luen Do , Mark D. Gross , Brian R. Johnson

CHI '02 extended abstracts on Human factors in computing systems April 2002

Navigational Blocks provide a tangible user interface for applications such as information kiosks. Orientation, movement, and relative position of electronically and microprocessor augmented physical blocks support visitor querying, retrieving, understanding, navigation and exploration of an historical information database.

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Prev
 Page

1 2

Next
 Page

21 Web-accessible network management tools

77



Nathan J. Muller

International Journal of Network Management September 1997

Volume 7 Issue 5

Web-based delivery of management information is becoming a key strategic element in corporate development. This article evaluates various proprietary web-based management tools, in light of recently proposed industry standards © 1997 John Wiley & Sons, Ltd.

22 Key frame preview techniques for video browsing

77



Anita Komlodi , Gary Marchionini

Proceedings of the third ACM conference on Digital libraries May 1998

23 Accessing distributed cultural heritage information

77



William E. Moen

Communications of the ACM April 1998

Volume 41 Issue 4

24 Grey tuple dependency and grey relational algebra

77



Ka-Wing Wong

Proceedings of the 1995 ACM 23rd annual conference on Computer science February 1995

25 Rethinking the reference manual: using database technology on the WWW to

77



provide complete, high-volume reference information without overwhelming readers

Michael Priestley , Luc Chamberland , Julian Jones

Proceedings of the 14th annual international conference on Systems documentation: Marshaling new technological forces: building a corporate, academic, and user-oriented triangle October 1996

26 Evaluation of relational algebras incorporating the time dimension in databases


77



L. Edwin McKenzie , Richard T. Snodgrass

27 Functional dependencies in Horn clause queries

77

 Alberto O. Mendelzon , Peter T. Wood


ACM Transactions on Database Systems (TODS) March 1991

Volume 16 Issue 1

When a database query is expressed as a set of Horn clauses whose execution is by top-down resolution of goals, there is a need to improve the backtracking behavior of the interpreter. Rather than putting on the programmer the onus of using extra-logical operators such as cut to improve performance, we show that some uses of the cut can be automated by inferring them from functional dependencies. This requires some knowledge of which variables are guaranteed to be bound at ...

28 Noncommand user interfaces

77

 Jakob Nielsen

Communications of the ACM April 1993

Volume 36 Issue 4

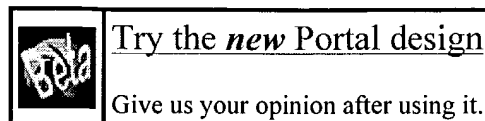
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Prev
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1 2


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1 Technical papers: dynamic program analysis: Semantic anomaly detection in online data sources 77



Orna Raz , Philip Koopman , Mary Shaw

Proceedings of the 24th international conference on Software engineering May 2002

Much of the software we use for everyday purposes incorporates elements developed and maintained by someone other than the developer. These elements include not only code and databases but also dynamic data feeds from online data sources. Although everyday software is not mission critical, it must be dependable enough for practical use. This is limited by the dependability of the incorporated elements. It is particularly difficult to evaluate the dependability of dynamic data feeds, because they ...

2 Symbolic-interval cooperation in constraint programming 77



Laurent Granvilliers , Eric Monfroy , Frédéric Benhamou

Proceedings of the 2001 international symposium on Symbolic and algebraic computation July 2001

This paper surveys the field of cooperative constraint solving for a constraint programming perspective with an emphasis on combinations of symbolic and interval methods. On the one hand, symbolic methods provide adapted representations of the constraint expressions. On the other hand, interval methods compute verified enclosures of solution sets. Using cooperation of solvers, one can take advantage of both techniques in a unified framework: symbolic algorithms generally need to be combined w ...

3 Document Formatting Systems: Survey, Concepts, and Issues 77



Richard Furuta , Jeffrey Scofield , Alan Shaw

ACM Computing Surveys (CSUR) September 1982

Volume 14 Issue 3







4 A Practical Approach to Selecting Record Access Paths 77



D. G. Severance , J. V. Carlis

ACM Computing Surveys (CSUR) December 1977

Volume 9 Issue 4

- 5** Update propagation protocols for replicated databases 77
 Yuri Breitbart , Raghavan Komondoor , Rajeev Rastogi , S. Seshadri , Avi Silberschatz
ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data June 1999
 Volume 28 Issue 2
 Replication is often used in many distributed systems to provide a higher level of performance, reliability and availability. Lazy replica update protocols, which propagate updates to replicas through independent transactions after the original transaction commits, have become popular with database vendors due to their superior performance characteristics. However, if lazy protocols are used indiscriminately, they can result in non-serializable executions. In this paper, we propose two new ...
- 6** Network behavior: The effectiveness of request redirection on CDN robustness 77
 Limin Wang , Vivek Pai , Larry Peterson
ACM SIGOPS Operating Systems Review December 2002
 Volume 36 Issue SI
 It is becoming increasingly common to construct network services using redundant resources geographically distributed across the Internet. Content Distribution Networks are a prime example. Such systems distribute client requests to an appropriate server based on a variety of factors---e.g., server load, network proximity, cache locality--in an effort to reduce response time and increase the system capacity under load. This paper explores the design space of strategies employed to redirect reque ...
- 7** Intelligent interactive video simulation of a code inspection 77
 Scott M. Stevens
Communications of the ACM July 1989
 Volume 32 Issue 7
 The need for technological solutions to learning, in the software engineering field is increasing. The Advanced Learning Technologies Project (ALT) has developed a highly interactive, high-fidelity simulation of group process communication. The first course demonstrating these techniques is on the formal technical review known as code inspection.
- 8** A multi-expert system for the automatic detection of protein domains from 77
 sequence information
 Niranjana Nagarajan , Golan Yona
Proceedings of the seventh annual international conference on Computational molecular biology April 2003
 We describe a novel method for detecting the domain structure of a protein from sequence information alone. The method is based on analyzing multiple sequence alignments that are derived from a database search. Multiple measures are defined to quantify the domain information content of each position along the sequence, and are combined into a single predictor using a neural network. The output is further smoothed and post-processed using a probabilistic model to predict the most likely transitio ...
- 9** String similarity and misspellings 77
 Cyril N. Alberga
Communications of the ACM May 1967
 Volume 10 Issue 5
- 10** Guidelines for humanizing computerized information systems: a report from Stanley 77
 House
 Theodor D. Sterling
Communications of the ACM November 1974
 Volume 17 Issue 11
- 11** Software safety in embedded computer systems 77



Nancy G. Leveson

Communications of the ACM February 1991

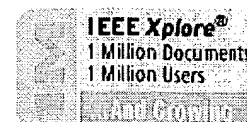
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1 Research on content-based Chinese word retrieval

Chen Lin; Lei Li;

Machine Learning and Cybernetics, 2002. Proceedings. 2002 International Conference on , Volume: 3 , 4-5 Nov. 2002

Pages:1144 - 1147 vol.3

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1 A multi-agent architecture for cooperative query answering

Barg, M.; Wong, R.K.;

System Sciences, 2000. Proceedings of the 33rd Annual Hawaii International Conference on , 4-7 Jan. 2000

Pages:10 pp. vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) **IEEE CNF**

2 An approach to control MTI filter order selections during search

Thompson, R.M.;

Radar Conference, 1997., IEEE National , 13-15 May 1997

Pages:7 - 12

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) **IEEE CNF**

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1 **Chabot: retrieval from a relational database of images**

Ogle, V.E.; Stonebraker, M.;

Computer, Volume: 28, Issue: 9, Sept. 1995

Pages:40 - 48

[\[Abstract\]](#) [\[PDF Full-Text \(748 KB\)\]](#) IEEE JNL

2 **Re-evaluating MPEG motion compensation search criteria**

Bishop, B.; Kelliher, T.P.; Owens, R.M.; Irwin, M.J.;

Signal Processing Systems, 1998. SIPS 98. 1998 IEEE Workshop on, 8-10 Oct. 1998

Pages:123 - 131

[\[Abstract\]](#) [\[PDF Full-Text \(482 KB\)\]](#) IEEE CNF

3 **Obelix searches Internet using customer data**

Milutinovic, V.; Knezevic, P.; Radunovic, B.; Casselman, S.; Schewel, J.;

Computer, Volume: 33, Issue: 9, Sep 2000

Pages:104 - 107

[\[Abstract\]](#) [\[PDF Full-Text \(112 KB\)\]](#) IEEE JNL

4 **Vector generation for power supply noise estimation and verification of deep submicron designs**

Yi-Min Jiang; Kwang-Ting Cheng;

Very Large Scale Integration (VLSI) Systems, IEEE Transactions on, Volume: 9, Issue: 2, April 2001

Pages:329 - 340

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) IEEE JNL

5 **Genetic-based search for error-correcting graph isomorphism**

Yuan-Kai Wang; Kuo-Chin Fan; Jorng-Tzong Horng;

Systems, Man and Cybernetics, Part B, IEEE Transactions on , Volume: 27 , Issue: 4 , Aug. 1997
Pages:588 - 597

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6 16-state space-time code for 16PSK modulation

Hong, S.K.; Chung, J.-M.;

Electronics Letters , Volume: 40 , Issue: 1 , 8 Jan. 2004

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7 On the design of low rate turbo codes

Leanderson, C.F.; Hokfelt, J.; Edfors, O.; Maseng, T.;

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9 Reversing the error-correction scheme for a fault-tolerant indexing

Berkovich, S.; El-Qawasmeh, E.;

Data Compression Conference, 1998. DCC '98. Proceedings , 30 March-1 April

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10 Further Results on Convolutional Code Search for Block-Fading Channels

Chiani, M.; Conti, A.; Tralli, V.;

Information Theory, IEEE Transactions on , Volume: 50 , Issue: 6 , June 2004

Pages:1312 - 1318

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11 A new algorithm for linear and nonlinear ARMA model parameter estimation using affine geometry [and application to blood flow/pressure data]

Sheng Lu; Ki Hwan Ju; Chon, K.H.;

Biomedical Engineering, IEEE Transactions on , Volume: 48 , Issue: 10 , Oct. 2001

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12 Decision problem structuring: generating options

Keller, L.R.; Ho, J.L.;

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5 , Sept.-Oct. 1988
Pages:715 - 728

[\[Abstract\]](#) [\[PDF Full-Text \(1404 KB\)\]](#) IEEE JNL

13 **An edge and color oriented optical flow estimation using block matching**

Dengsheng Zhang; Guojun Lu;

Signal Processing Proceedings, 2000. WCCC-ICSP 2000. 5th International Conference on , Volume: 2 , 21-25 Aug. 2000

Pages:1026 - 1032 vol.2

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14 **Survey of CGLSS/SLC40 lightning data and retest criteria**

Chai, J.C.; Montegut, J.L.; deRussy, S.D.;

Electromagnetic Compatibility, 1997. IEEE 1997 International Symposium on , 18-22 Aug. 1997

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15 **Cataloging of NODC Archives on the NASA Ocean Data System**

Patterson, S.; Simmons, M.;

OCEANS , Volume: 18 , Sep 1986

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Parallel and Distributed Computing, Applications and Technologies, 2003.

PDCAT'2003. Proceedings of the Fourth International Conference on , 27-29 Aug. 2003

Pages:821 - 824

[\[Abstract\]](#) [\[PDF Full-Text \(364 KB\)\]](#) **IEEE CNF****17 VIP-an input pattern generator for identifying critical voltage drop for deep sub-micron designs***Yin-Min Jiang; Young, T.K.; Kwang-Ting Cheng;*

Low Power Electronics and Design, 1999. Proceedings. 1999 International Symposium on , 16-17 Aug. 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE CNF****18 Efficient information retrieval on the World Wide Web using adaptable and mobile Java agents***Popp, R.L.; Maksymiuk, B.P.; Poreda, M.R.;*

Systems, Man, and Cybernetics, 1998. 1998 IEEE International Conference on , Volume: 3 , 11-14 Oct. 1998

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Knowledge and Data Engineering, IEEE Transactions on , Volume: 10 , Issue: 3 , May-June 1998

Pages:493 - 499

[\[Abstract\]](#) [\[PDF Full-Text \(220 KB\)\]](#) **IEEE JNL**2 **A unifying methodology for multiple querying on enhanced meshes***Bokka, V.; Gurla, H.; Olariu, S.; Schwing, J.L.; Wilson, L.;*

Parallel and Distributed Processing, 1996. Eighth IEEE Symposium on , 23-26 Oct. 1996

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[\[Abstract\]](#) [\[PDF Full-Text \(740 KB\)\]](#) **IEEE CNF**3 **A framework for multiple-query optimization***Alsabbagh, J.R.; Raghavan, V.V.;*

Research Issues on Data Engineering, 1992: Transaction and Query Processing. Second International Workshop on , 2-3 Feb. 1992

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Databases, Parallel Architectures and Their Applications, PARBASE-90, International Conference on , 7-9 March 1990

Pages:535

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meshes, with applications

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6 On the multiple-query optimization problem

Sellis, T.; Ghosh, S.;
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7 Multiple query optimization for data analysis applications on clusters of SMPs

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8 Analysis of common subexpression exploitation models in multiple-query processing

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[\[Abstract\]](#) [\[PDF Full-Text \(748 KB\)\]](#) IEEE CNF

9 Divide and conquer: A basis for augmenting a conventional query optimizer with multiple query-processing capabilities

Chakravarthy, S.;
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10 Using common subexpressions to optimize multiple queries

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11 Multiple query optimization by cache-aware middleware using query teamwork

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Meilhac, C.; Mitschke, M.; Nastar, C.;

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15 Neural network based retrieval issue on prototype database systems

Ouyang, Y.C.; Jermann, W.;

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16 Query feedback for interactive image retrieval

Kushki, A.; Androutsos, P.; Plataniotis, K.N.; Venetsanopoulos, A.N.;
 Circuits and Systems for Video Technology, IEEE Transactions on , Volume: 14 , Issue: 5 , May 2004
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Kashino, K.; Kurozumi, T.; Murase, H.;
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Wolf, J.L.; Turek, J.; Ming-Syan Chen; Yu, P.S.;
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Natsev, A.P.; Smith, J.R.;
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Hong Chen; Sheng Zhou; Shan Wang;

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Jian Yang; Karlapalem, K.; Qing Li;

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Sang-Hwa Chung; Soo-Cheol Oh; Kwang Ryel Ryu; Soo-Hee Park;

Algorithms and Architectures for Parallel Processing, 1997. ICAPP 97. 1997 3rd International Conference on , 10-12 Dec. 1997
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